



The Great Cookie Jar Caper

Grade 3 math · Place value, Addition, Subtraction, Skip counting, Division · Reading level grades 3-4

Detective: _____ Date: _____

Oh no! The grand prize cookie jar is empty, and there are crumbs leading out the bakery door! The Head Baker needs your help to track down the Crumb Bandit before the town festival tonight.

1. Solve each math problem. The answer is a number, and the letter beside it is what that number stands for.
2. In the clue boxes, write that letter in every box showing the same number, then read the secret clue.
3. Use each clue to cross suspects off the list. The one suspect left at the end is the culprit!

My answer: the Crumb Bandit is _____

Possible suspects

Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SNEAKING SKILL	THIEF GEAR	HANDEDNESS	HAIR COLOR	WEAKNESS
Famous Amos	Oven unlocking	Choco detector	Left handed	Chocolate brown hair	Hot cocoa
Chef Chip	Flour sack hiding	Sugar sprayer	Right handed	Blue frosting hair	Apple juice
Debbie Little	Flour sack hiding	Sugar sprayer	Right handed	Blue frosting hair	Cold milk
Patty Pastry	Flour sack hiding	Crumb brush	Left handed	Blue frosting hair	Hot cocoa
Cocoa Clara	Oven unlocking	Crumb brush	Left handed	Blue frosting hair	Cold milk
Fudge Freddy	Oven unlocking	Cookie tongs	Left handed	Chocolate brown hair	Hot cocoa
Penny Peanut	Flour sack hiding	Flour blaster	Right handed	Blue frosting hair	Hot cocoa
Duncan Hines	Rack climbing	Sugar sprayer	Right handed	Strawberry pink hair	Cold milk
Frosting Fiona	Oven unlocking	Choco detector	Left handed	Strawberry pink hair	Hot cocoa
Danny Dough	Rack climbing	Sugar sprayer	Left handed	Strawberry pink hair	Cold milk
Sprinkle Sam	Bowl swiping	Cookie tongs	Left handed	Strawberry pink hair	Hot cocoa
Peter Pan	Flour sack hiding	Crumb brush	Left handed	Blue frosting hair	Cold milk
Macadamia Mary	Oven unlocking	Sugar sprayer	Right handed	Blue frosting hair	Cold milk
Crumbly Craig	Bowl swiping	Choco detector	Right handed	Chocolate brown hair	Hot cocoa
Suzy Sugar	Rack climbing	Flour blaster	Right handed	Blue frosting hair	Cold milk
Wally Wafer	Oven unlocking	Sugar sprayer	Left handed	Chocolate brown hair	Apple juice
Buster Butter	Bowl swiping	Flour blaster	Left handed	Blue frosting hair	Cold milk
Barney Biscuit	Dough room creeping	Choco detector	Right handed	Blue frosting hair	Cold milk
Otis Oatmeal	Oven unlocking	Sugar sprayer	Left handed	Blue frosting hair	Cold milk
Baker Betty	Rack climbing	Cookie tongs	Right handed	Blue frosting hair	Cold milk
Ginger Snap	Dough room creeping	Crumb brush	Left handed	Blue frosting hair	Cold milk

CLUE 1 Place value

The digital lock on the vault is blinking. To find the secret code, we need to look closely at the digit in the tens place.

Solve each problem, then write its letter in every clue box that shows the same number.

T			T											T				
2000	300	8000	2000	300	90	8000	5000	20	30	8000	60	600	30	2000	6000	60	8000	1000
										T			T					
40	300	30	40	30	20	8000	2000	8000	40	2000	30	800						

What is the value of the 2 in 92,675? → **T**

What is the value of the 8 in 8,173? → **E**

What is the value of the 2 in 123? → **D**

What is the value of the 5 in 15,404? → **F**

What is the value of the 4 in 6,848? → **C**

What is the value of the 9 in 3,294? → **I**

What is the value of the 3 in 538? → **O**

What is the value of the 3 in 2,324? → **H**

What is the value of the 6 in 864? → **S**

What is the value of the 6 in 6,840? → **U**

What is the value of the 1 in 71,724? → **A**

What is the value of the 6 in 618? → **N**

What is the value of the 8 in 899? → **R**

Scratch space:

CLUE 2 Addition

The thief dropped several small bags of sugar. Let us add up all the bags to find out how heavy the thief's backpack was.

Solve each problem, then write its letter in every clue box that shows the same number.

T															
863	638	626	252	510	510	899	311	626	911	881	656	621	881	643	
								T							T
510	490	626	987	626	282	621	311	863	638	881	656	311	435	638	863
638	881	987	282												

$516 + 347 = \square \rightarrow$ T	$232 + 389 = \square \rightarrow$ W	$155 + 280 = \square \rightarrow$ G
$370 + 529 = \square \rightarrow$ K	$221 + 269 = \square \rightarrow$ P	$255 + 401 = \square \rightarrow$ R
$143 + 139 = \square \rightarrow$ D	$276 + 605 = \square \rightarrow$ A	$612 + 299 = \square \rightarrow$ J
$108 + 144 = \square \rightarrow$ C	$470 + 517 = \square \rightarrow$ N	$193 + 118 = \square \rightarrow$ I
$290 + 353 = \square \rightarrow$ S	$320 + 190 = \square \rightarrow$ O	$396 + 242 = \square \rightarrow$ H
$357 + 269 = \square \rightarrow$ E		

Scratch space:

CLUE 3 Subtraction

The bakery jar started with many cookies, but now only a few are left. Subtract the leftovers from the start to find the missing clue.

Solve each problem, then write its letter in every clue box that shows the same number.

T			T												
517	375	659	517	375	867	659	573	722	383	192	604	427	319	427	757
573	722	156	254	196	156	227	246	254	867	227	850				

$803 - 286 = \boxed{} \rightarrow \boxed{\text{T}}$

$370 - 51 = \boxed{} \rightarrow \boxed{\text{W}}$

$713 - 338 = \boxed{} \rightarrow \boxed{\text{H}}$

$533 - 341 = \boxed{} \rightarrow \boxed{\text{N}}$

$527 - 144 = \boxed{} \rightarrow \boxed{\text{U}}$

$1047 - 388 = \boxed{} \rightarrow \boxed{\text{E}}$

$504 - 348 = \boxed{} \rightarrow \boxed{\text{O}}$

$470 - 274 = \boxed{} \rightarrow \boxed{\text{C}}$

$365 - 138 = \boxed{} \rightarrow \boxed{\text{L}}$

$572 - 318 = \boxed{} \rightarrow \boxed{\text{M}}$

$308 - 62 = \boxed{} \rightarrow \boxed{\text{D}}$

$876 - 119 = \boxed{} \rightarrow \boxed{\text{Y}}$

$625 - 21 = \boxed{} \rightarrow \boxed{\text{S}}$

$975 - 253 = \boxed{} \rightarrow \boxed{\text{R}}$

$690 - 117 = \boxed{} \rightarrow \boxed{\text{F}}$

$615 - 188 = \boxed{} \rightarrow \boxed{\text{A}}$

$1192 - 342 = \boxed{} \rightarrow \boxed{\text{K}}$

$1066 - 199 = \boxed{} \rightarrow \boxed{\text{I}}$

Scratch space:

CLUE 4 Skip counting

We follow footprints spaced out across the floor. Let us count by fives to measure the path the thief took to escape.

Solve each problem, then write its letter in every clue box that shows the same number.

W																
65	55	60	20	27	80	26	39	40	30	27	55					
60	70	20	120	33	8	80	42	130	39	8	70	39	33	33	130	55
120	16	55	80	55												

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 → **W**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 → **N**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 → **G**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 → **H**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 → **D**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 → **U**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 → **S**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 → **C**

Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 → **I**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 → **A**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, __, 80, 90 → **R**

Skip-count by 10s. Fill the blank: 10, 20, 30, __, 50, 60 → **B**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, __, 33, 36 → **L**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 → **T**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 → **E**

Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 → **O**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, __, 65, 70 → **F**

Scratch space:

CLUE 5**Division facts (1-12) - the last clue**

We have a tray of frosting tubes to share. If we divide them equally among our helper puppies, we will decode the final message.

First solve each problem. Then find each answer in the numbered list below and cross that sentence out. One sentence will be left - that is exactly what the villain did!

Step 1 - solve these:

$5 \div 1 = \boxed{}$

$48 \div 8 = \boxed{}$

$44 \div 4 = \boxed{}$

$48 \div 12 = \boxed{}$

$18 \div 6 = \boxed{}$

$100 \div 10 = \boxed{}$

$10 \div 5 = \boxed{}$

$56 \div 8 = \boxed{}$

$24 \div 3 = \boxed{}$

$60 \div 5 = \boxed{}$

$54 \div 6 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain climbs the cooling racks, then sprays white powder with a flour blaster.
2. The villain swipes the mixing bowls, then snatches the treats with cookie tongs.
3. The villain swipes the mixing bowls, then finds the best chips with a choco detector.
4. The villain climbs the cooling racks, then coats the floor with a sugar sprayer.
5. The villain unlocks the giant oven, then coats the floor with a sugar sprayer.
6. The villain climbs the cooling racks, then snatches the treats with cookie tongs.
7. The villain unlocks the giant oven, then finds the best chips with a choco detector.
8. The villain unlocks the giant oven, then snatches the treats with cookie tongs.
9. The villain climbs the cooling racks, then sweeps up the evidence with a crumb brush.
10. The villain sneaks under the flour sack, then finds the best chips with a choco detector.
11. The villain sneaks under the flour sack, then coats the floor with a sugar sprayer.
12. The villain creeps through the dough room, then sprays white powder with a flour blaster.

Answer Key

The Great Cookie Jar Caper

Culprit: Suzy Sugar

Rack climbing · Flour blaster · Right handed · Blue frosting hair · Cold milk

Trail: Start 21 → Clue 1 17 → Clue 2 7 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE THIEF DOES NOT USE A CHOCO DETECTOR"

What is the value of the 2 in 92,675? = 2000 (T) · What is the value of the 8 in 8,173? = 8000 (E) · What is the value of the 2 in 123? = 20 (D) · What is the value of the 5 in 15,404? = 5000 (F) · What is the value of the 4 in 6,848? = 40 (C) · What is the value of the 9 in 3,294? = 90 (I) · What is the value of the 3 in 538? = 30 (O) · What is the value of the 3 in 2,324? = 300 (H) · What is the value of the 6 in 864? = 60 (S) · What is the value of the 6 in 6,840? = 6000 (U) · What is the value of the 1 in 71,724? = 1000 (A) · What is the value of the 6 in 618? = 600 (N) · What is the value of the 8 in 899? = 800 (R)

Clue 2 (Addition): "THE COOKIE JAR WAS OPENED WITH A RIGHT HAND"

516 + 347 = 863 (T) · 232 + 389 = 621 (W) · 155 + 280 = 435 (G) · 370 + 529 = 899 (K) · 221 + 269 = 490 (P) · 255 + 401 = 656 (R) · 143 + 139 = 282 (D) · 276 + 605 = 881 (A) · 612 + 299 = 911 (J) · 108 + 144 = 252 (C) · 470 + 517 = 987 (N) · 193 + 118 = 311 (I) · 290 + 353 = 643 (S) · 320 + 190 = 510 (O) · 396 + 242 = 638 (H) · 357 + 269 = 626 (E)

Clue 3 (Subtraction): "THE THIEF RUNS AWAY FROM COLD MILK"

803 - 286 = 517 (T) · 370 - 51 = 319 (W) · 713 - 338 = 375 (H) · 533 - 341 = 192 (N) · 527 - 144 = 383 (U) · 1047 - 388 = 659 (E) · 504 - 348 = 156 (O) · 470 - 274 = 196 (C) · 365 - 138 = 227 (L) · 572 - 318 = 254 (M) · 308 - 62 = 246 (D) · 876 - 119 = 757 (Y) · 625 - 21 = 604 (S) · 975 - 253 = 722 (R) · 690 - 117 = 573 (F) · 615 - 188 = 427 (A) · 1192 - 342 = 850 (K) · 1066 - 199 = 867 (I)

Clue 4 (Skip counting): "WE FOUND A BLUE FROSTING HAIR AT THE SCENE"

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 = 65 (W) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 = 80 (N) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 = 42 (G) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 = 130 (H) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (D) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (U) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (S) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (C) · Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 = 8 (I) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (A) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, __, 80, 90 = 70 (R) · Skip-count by 10s. Fill the blank: 10, 20, 30, __, 50, 60 = 40 (B) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, __, 33, 36 = 30 (L) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (T) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 = 55 (E) · Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 = 20 (O) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, __, 65, 70 = 60 (F)

Clue 5 (Division facts (1-12)): surviving statement is box 1 → Suzy Sugar

5 ÷ 1 = 5 · 48 ÷ 8 = 6 · 44 ÷ 4 = 11 · 48 ÷ 12 = 4 · 18 ÷ 6 = 3 · 100 ÷ 10 = 10 · 10 ÷ 5 = 2 · 56 ÷ 8 = 7 · 24 ÷ 3 = 8 · 60 ÷ 5 = 12 · 54 ÷ 6 = 9